

## Title (en)

Methods of amplifying and sequencing nucleic acids

## Title (de)

Verfahren zur Verstärkung und Sequenzierung von Nukleinsäuren

## Title (fr)

Procédés d'amplification et de séquençage d'acides nucléiques

## Publication

**EP 2159285 A3 20110629 (EN)**

## Application

**EP 09166658 A 20040128**

## Priority

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- US 44347103 P 20030129
- US 46507103 P 20030423
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- US 47631303 P 20030606
- US 47659203 P 20030606
- US 49798503 P 20030825

## Abstract (en)

[origin: EP2261372A2] An apparatus and method for performing rapid DNA sequencing, such as genomic sequencing, is provided herein. The method includes the steps of preparing a sample DNA for genomic sequencing, amplifying the prepared DNA in a representative manner, and performing multiple sequencing reaction on the amplified DNA with only one primer hybridization step.

## IPC 8 full level

**C12N 15/10** (2006.01); **B01L 3/00** (2006.01); **C07H 21/00** (2006.01); **C12P 19/34** (2006.01); **C12Q 1/68** (2006.01); **G01N 21/25** (2006.01); **G01N 21/64** (2006.01)

## CPC (source: EP US)

**B01L 3/502707** (2013.01 - EP US); **B01L 3/502715** (2013.01 - EP US); **C07H 21/00** (2013.01 - EP US); **C12N 15/1075** (2013.01 - EP US); **C12N 15/1093** (2013.01 - EP US); **C12Q 1/6806** (2013.01 - EP US); **C12Q 1/6834** (2013.01 - EP US); **C12Q 1/6844** (2013.01 - EP US); **C12Q 1/686** (2013.01 - EP US); **C12Q 1/6865** (2013.01 - EP US); **C12Q 1/6867** (2013.01 - EP US); **C12Q 1/6869** (2013.01 - EP US); **C12Q 1/6874** (2013.01 - EP US); **G01N 21/253** (2013.01 - EP US); **G01N 21/6428** (2013.01 - EP US); **G01N 21/6452** (2013.01 - EP US); **G01R 33/1269** (2013.01 - EP US); **B01L 3/5027** (2013.01 - EP US); **B01L 3/5085** (2013.01 - EP US); **B01L 7/52** (2013.01 - EP US); **B01L 2300/0636** (2013.01 - EP US); **B01L 2300/0819** (2013.01 - EP US); **B01L 2300/0877** (2013.01 - EP US); **G01N 21/6458** (2013.01 - EP US); **G01N 2021/6484** (2013.01 - EP US); **Y02P 20/582** (2015.11 - EP US); **Y10T 436/143333** (2015.01 - EP US)

## C-Set (source: EP US)

1. **C12Q 1/6834** + **C12Q 2565/119** + **C12Q 2531/113**
2. **C12Q 1/686** + **C12Q 2565/119**
3. **C12Q 1/686** + **C12Q 2565/537** + **C12Q 2547/107** + **C12Q 2547/101**
4. **C12Q 1/686** + **C12Q 2537/143** + **C12Q 2527/125**
5. **C12Q 1/6869** + **C12Q 2525/186** + **C12Q 2565/301** + **C12Q 2565/537**
6. **C12Q 1/6869** + **C12Q 2565/537** + **C12Q 2565/301** + **C12Q 2563/149**
7. **C12Q 1/6874** + **C12Q 2565/301** + **C12Q 2531/113**
8. **C12Q 1/6844** + **C12Q 2531/125** + **C12Q 2565/119** + **C12Q 2527/125**
9. **C12Q 1/686** + **C12Q 2547/101** + **C12Q 2565/119** + **C12Q 2527/125**
10. **C12Q 1/6865** + **C12Q 2547/101** + **C12Q 2565/119** + **C12Q 2527/125**
11. **C12Q 1/6867** + **C12Q 2547/101** + **C12Q 2565/119** + **C12Q 2527/125**
12. **C12Q 1/6869** + **C12Q 2537/149** + **C12Q 2535/119** + **C12Q 2525/186**

## Citation (search report)

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- [X] WO 0120039 A2 20010322 - CURAGEN CORP [US], et al
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DOCDB simple family (publication)

**US 2004185484 A1 20040923**; AT E437945 T1 20090815; AT E448302 T1 20091115; AT E461291 T1 20100415; AT E546525 T1 20120315; AU 2004209001 A1 20040819; AU 2004209001 B2 20071011; AU 2004209416 A1 20040819; AU 2004209416 B2 20070802; AU 2004209426 A1 20040819; AU 2004209426 B2 20080417; AU 2004254552 A1 20050113; AU 2004254552 B2 20080424; CA 2513535 A1 20040819; CA 2513535 C 20120612; CA 2513541 A1 20040819; CA 2513889 A1 20040819; CA 2513899 A1 20050113; CA 2513899 C 20130326; CA 2727850 A1 20050113; CA 2727850 C 20130430; CA 2728746 A1 20050113; CA 2728746 C 20180116; CN 101128601 A 20080220; CN 101128601 B 20110608; CN 102212614 A 20111012; CN 102212614 B 20131225; DE 602004022253 D1 20090910; DE 602004024034 D1 20091224; DE 602004026033 D1 20100429; DE 602004036672 C5 20121129; EP 1590477 A2 20051102; EP 1590477 A4 20080409; EP 1590477 B1 20090729; EP 1594950 A2 20051116; EP 1594950 A4 20070725; EP 1594980 A2 20051116; EP 1594980 A4 20070502; EP 1594980 B1 20091111; EP 1594980 B2 20170816; EP 1594981 A2 20051116; EP 1594981 A4 20080305; EP 1594981 B1 20100317; EP 1997889 A2 20081203; EP 1997889 A3 20090923; EP 2145955 A2 20100120; EP 2145955 A3 20110330; EP 2145955 B1 20120222; EP 2159285 A2 20100303; EP 2159285 A3 20110629; EP 2159285 B1 20120926; EP 2261372 A2 20101215; EP 2261372 A3 20110406; EP 2261372 B1 20120822; ES 2330339 T3 20091209; ES 2338654 T3 20100511; ES 2338654 T5 20171211; ES 2342665 T3 20100712; ES 2380893 T3 20120521; ES 2396245 T3 20130220; JP 2006515522 A 20060601; JP 2007523627 A 20070823; JP 2007525151 A 20070906; JP 2007535892 A 20071213; JP 2010142233 A 20100701; JP 2010178744 A 20100819; JP 2012231799 A 20121129; JP 2013066475 A 20130418; JP 2013090635 A 20130516; JP 4473878 B2 20100602; JP 4480715 B2 20100616; JP 4768598 B2 20110907; JP 5258822 B2 20130807; JP 5495399 B2 20140521; JP 5726155 B2 20150527; US 10240192 B2 20190326; US 10982274 B2 20210420; US 2005079510 A1 20050414; US 2005130173 A1 20050616; US 2006134633 A1 20060622; US 2008132693 A1 20080605; US 2009011959 A1 20090108; US 2009048124 A1 20090219; US 2011009275 A1 20110113; US 2011201526 A1 20110818; US 2012238475 A1 20120920; US 2013078638 A1 20130328; US 2014162885 A1 20140612; US 2015099672 A1 20150409; US 2016298175 A1 20161013; US 2019203263 A1 20190704; US 7244567 B2 20070717; US 7323305 B2 20080129; US 7842457 B2 20101130; US 8012690 B2 20110906; US 8158359 B2 20120417; US 8748102 B2 20140610; US 8765380 B2 20140701; US 8790876 B2 20140729; WO 2004069849 A2 20040819; WO 2004069849 A3 20050324; WO 2004069849 A8 20070419; WO 2004070005 A2 20040819; WO 2004070005 A3 20041111; WO 2004070005 B1 20050120; WO 2004070007 A2 20040819; WO 2004070007 A3 20051222; WO 2005003375 A2 20050113; WO 2005003375 A3 20070823

DOCDB simple family (application)

**US 76789404 A 20040128**; AT 04706051 T 20040128; AT 04706053 T 20040128; AT 04785758 T 20040128; AT 09175588 T 20040128; AU 2004209001 A 20040128; AU 2004209416 A 20040128; AU 2004209426 A 20040128; AU 2004254552 A 20040128; CA 2513535 A 20040128; CA 2513541 A 20040128; CA 2513889 A 20040128; CA 2513899 A 20040128; CA 2727850 A 20040128; CA 2728746 A 20040128; CN 200480008636 A 20040128; CN 201110079989 A 20040128; DE 602004022253 T 20040128; DE 602004024034 T 20040128; DE 602004026033 T 20040128; DE 602004036672 T 20040128; EP 04706051 A 20040128; EP 04706053 A 20040128; EP 04706080 A 20040128; EP 04785758 A 20040128; EP 08013208 A 20040128; EP 09166658 A 20040128; EP 09175588 A 20040128; EP 10179652 A 20040128; ES 04706051 T 20040128; ES 04706053 T 20040128; ES 04785758 T 20040128; ES 09166658 T 20040128; ES 09175588 T 20040128; JP 2006503133 A 20040128; JP 2006503134 A 20040128; JP 2006503163 A 20040128; JP 2006532273 A 20040128; JP 2009297745 A 20091228; JP 2010053827 A 20100310; JP 2012181295 A 20120820; JP 2012258136 A 20121127; JP 2012282220 A 20121226; US 15490108 A 20080527; US 2004002484 W 20040128; US 2004002485 W 20040128; US 2004002570 W 20040128; US 2004002571 W 20040128; US 201113033240 A 20110223; US 201213419241 A 20120313; US 201213618334 A 20120914; US 201314036398 A 20130925; US 201414518700 A 20141020; US 201615190886 A 20160623; US 201916249681 A 20190116; US 76777904 A 20040128; US 76789904 A 20040128; US 76872904 A 20040128; US 78883807 A 20070420; US 80336210 A 20100624; US 98209507 A 20071031